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Lab 7
Name :abhinav c
Usn 1bm23cs008
import java.util.Scanner;
class NegativeAgeError extends Exception {
  int a;
  public NegativeAgeError(int a) {
     this.a = a;
  }
  @Override
  public String toString() {
     return "Negative Age: " + a;
  }
}
class InvalidAgeError extends Exception {
  int a, b;
  public InvalidAgeError(int a, int b) {
     this.a = a;
     this.b = b;
  }
  @Override
  public String toString() {
     return "Invalid Age: " + a + " is less than " + b;
  }
}
class Father {
  String name;
  int age;
  Father(String name, int age) {
     try {
       if (age < 0) {
          throw new NegativeAgeError(age);
       }
       this.name = name;
       this.age = age;
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} catch (NegativeAgeError e) {
       System.out.println(e);
    }
  }
}
class Son extends Father {
  String sonName;
  int sonAge;
  Son(String sonName, int sonAge, String fatherName, int fatherAge) {
     super(fatherName, fatherAge);
     this.sonName = sonName;
     try {
       if (sonAge < 0) {
          throw new NegativeAgeError(sonAge);
       if (sonAge >= fatherAge) {
          throw new InvalidAgeError(sonAge, fatherAge);
       }
       this.sonAge = sonAge;
     } catch (NegativeAgeError e) {
       System.out.println(e);
     } catch (InvalidAgeError e) {
       System.out.println(e);
 }
public class Exceptions {
  public static void main(String[] args) {
     System.out.println("Abhinav C\nUSN: 1BM23CS008");
     Scanner sc = new Scanner(System.in);
     System.out.println("Enter son name");
     String name = sc.next();
     System.out.println("Enter son age");
     int age = sc.nextInt();
     System.out.println("Enter father name");
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String fatherName = sc.next();
    System.out.println("Enter father's age");
    int fatherAge = sc.nextInt();
    Son a1 = new Son(name, age, fatherName, fatherAge);
    System.out.println("End of program");
 }
}
Abhinav C
USN : 1BM23CS008
Enter son name
abhinavc
Enter son age
10
Enter father name
Enter father's age
Invalid Age: 10 is less than 7
End of program
Abhinav C
USN : 1BM23CS008
Enter son name
abhinav
Enter son age
123
Enter father name
1bm23cs008
Enter father's age
124
End of program
```